Geneva, N. Y.—Bids will be received about Feb. 1 by H. Sweeney & Son for the construction of a 50x150-ft. theater. Estimated cost, $50,000. Leon Lempert & Son, Rochester, is Arch.

Kingston, N. Y.—Plans are being prepared by Gerald Betz for the construction of a two-story, 109x150-ft. theater for Lew Fisher. Estimated cost, $60,000.

✚Lockport, N. Y.—(Official)—The contract for the improvement of the Lockport Union School has been awarded to H. J. Menzelberger, Phillipsburg, N. J., at $54,589. Noted Nov. 5.

New York, N. Y.—(Borough of Brooklyn)—Plans have been prepared by Parfitt Bros., Arch., 26 Court St., for the construction of a seven-story store and loft building at Fulton and Bond St., for Jason S. Bailey, 615 Washington St., Boston, Mass. Estimated cost is $100,000.

New York, N. Y.—(Borough of Brooklyn)—Slee & Bryson, 154 Montague St., are preparing plans for the construction of a four-story, 60x100-ft. apartment house, on Prospect Pl., near New York Ave., for W. B. Greenman, 350 Fulton St. Estimated cost, $60,000.

New York, N. Y.—(Borough of Bronx)—Plans are being prepared by Harry T. Howell, 148th St. and Third Ave., for the construction of two five-story, 50x90-ft. and 50x88-ft. apartment houses at Home St. and Vyse Ave., for the Vyse Building Co., 967 East 165th St. The estimated cost is $117,000.

New York, N. Y.—(Borough of Bronx)—Moore & Landsiedel, Arch., 148th St. and Third Ave., are preparing plans for the construction of a five-story, 112x95-ft. apartment house on Albany, Crescent and Bailey Ave., for Michael J. Martin, 1123 Broadway. Estimated cost, $75,000.

New York, N. Y.—(Borough of Bronx)—Plans have been prepared by M. W. Del Gaudio, 401 East Tremont Ave., for the construction of a five-story, 69x79-ft. apartment house at Crescent and Hughes Ave., for the Fargo Construction Co., 2409 Beaumont Ave. Estimated cost is $40,000.

New York, N. Y.—(Borough of Manhattan)—Brokaw Bros., Astor Pl. and Fourth Ave., plan to construct an 11-story building on Broadway between 41st and 42d St.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Warren & Wetmore, Arch., for the construction of an 11-story, 75x100-ft. building at Fifth Ave. and 37th St. for the Murray Hill Investing Co. Estimated cost, $300,000.

New York, N. Y.—(Borough of Richmond)—Plans are being prepared by Frederick S. Metcalf, Arch., 143 North Ave., Plainfield, N. J., for the construction of a two-story, 130x190-ft. parochial school at West New Brighton, S. I., for the Church of the Sacred Heart. Rev. W. C. Poole is Pastor. Estimated cost, $100,000.

Belleville, N. J.—The following bids were received Jan. 19 by the Board of Education for constructing the proposed school at Washington Ave. and Holmes St.: Essex Construction Co., Newark, $92,990; L. J. Rice, New York, $98,000; E. M. Waldron & Co., $94,035; Frederick Fatzler & Co., Inc., Newark, $95,987; John J. Egan & Co., Jersey City, $99,800. Noted Jan. 7.

Hackettstown, N. J.—The following bids were received by the Board of Education Jan. 21, for the construction of the proposed school: Butz & Clader, Allentown, Penn., $57,991; W. A. Richman, Moorestown, N. J., $59,000; Thomas Smith & Sons, $59,800; Lawrence J. Rice, New York, N. Y., $59,850; W. A. Stein & Co., Allentown, Penn., $60,345; A. P. Clark Co., Montclair, N. J., $63,088; H. T. Winzelberger, Phillipsburg, N. J., $63,145; Nallo Bros., Netcong, N. J., $63,800; A. M. Barrows Construction Co., New York, N. Y., $64,794; W. C. Ellenberger, $65,000; E. T. Albott Co., New York, N. Y., $68,900; George W. Smith, Hackettstown, N. J., $12,350; Charles Cowen Co., New York, N. Y., $79,650; Tabbott Kleinert, $81,986. Noted Jan. 14.

Kearney, N. J.—Plans are being prepared by Henry Baechlin, Arch., 665 Broad St., Newark, for the construction of a Masonic Temple for Copestone Lodge No. 147, F. and A. M. Estimated cost, $65,000.

New Brunswick, N. J.—Bids will be received until Feb. 15 by the Board of Education for the construction of a two-story, 180x190-ft. high school at Lexington and Delaware Ave. Estimated cost, $165,000. Alexander Merchant, 363 George St., is Arch. Noted Dec. 3.

Trenton, N. J.—Bids will be received for the construction of a two-story building at the Home for Indigents. Estimated cost, $50,000. M. Haupt is Arch.

Braddock, Penn.—Bids will be received until Feb. 1 by Charles W. Milligan, Arch., Wood and Ross St., Wilkinsburg, for constructing a four-story, 40x150-ft. addition to the Braddock General Hospital. Estimated cost, $75,000.

✚Easton, Penn.—The contract for the construction of a building for St. Joseph's Catholic Church, South Side, has been awarded to A. A. BECHTEL. Estimated cost, $80,000.

Philadelphia, Penn.—Bids will be received about Mar. 1 for the construction of a four-story, 128x159-ft. apartment house at 41st and Baltimore Ave. Estimated cost, $200,000. Clinton & Russell, New York, N. Y., is Arch.

✚Philadelphia, Penn.—The Department of Public Works has awarded the contract for constructing a one-story, 40x120-ft. home for nurses, a 60x64-ft. observation building and a 60x270-ft. scarlet fever ward, at Second and Luzerne St., to P. J. HURLEY 1233 Cherry St., at $53,928, $74,585 and $27,000, respectively.

Wilmington, Del.—Bids will be received about Mar. 1 by the Board of Education for the construction of a three-story, 88x182-ft. school. Estimated cost, $140,000. A. Edward Rhodes, 9 Masonic Temple, is Arch. Noted Jan. 21.

Charlotte, N. C.—E. Reid Russell, Asheville, N. C., plans to reconstruct the building at 18 West Fifth St., recently destroyed by fire with a loss of $75,000.

Vivian, La.—The lowest bid received for constructing a high school for Caddo Parish was that of Jones & Harrington, Hot Springs, Ark., at $64,895. Edward F. Neild, Shreveport, is Arch. Noted Dec. 24.

Akron, Ohio—Plans are being prepared by M. E. Harpster, Arch., for the construction of an armory. The estimated cost is $60,000.

Canton, Ohio—(Official)—George F. Hammond, Arch., 4220 Prospect St., Cleveland, writes that bids will be received about Mar. 1 for the construction of the Central High School. Noted Jan. 21.

Cleveland, Ohio—(Official)—Bids will be received about Mar. 1 by Richard Irvin, Arch. and Engr., Union Bank Bldg., Pittsburgh, Penn., for the construction of the Daylight Bldg., for Harry J. Schlosser, Erie, Penn. Estimated cost, $100,000. Noted Jan. 21.

Steubenville, Ohio—Harry Low and Frank Demetros plan to construct a three-story, 49x180-ft. theater at Market and Fifth St. The estimated cost is $50,000.

✚Greencastle, Ind.—(Official)—G. R. Grose, Pres., De Pauw University, writes that R. P. DAGGETT & Co., Indianapolis, has been awarded the contract for the construction of the $100,000 gymnasium. Noted Oct. 8, Dec. 3 and Jan. 21.

Indianapolis, Ind.—(Official)—McMahon, Ernest & Co., State Life Bldg., will soon construct a 10-story, 66x90-ft. hotel at Washington and Senate Ave. Estimated cost, $250,000. Wilbur T. Mills & Co., Columbus, Ohio, is Arch.

Indianapolis, Ind.—The Washington & Meridian Realty Co., recently incorporated, plans to construct a 10-story, 34x120-ft. building at Washington and Meridian St. The estimated cost is $255,000. Vonnegut & Bohn, 610 Indiana Trust Bldg., is Arch.

Detroit, Mich.—Tentative plans have been prepared by Edward C. Van Leyen and Edward A. Schilling, Archs., 1115 Union Trust Bldg., for the construction of a clubhouse at Cass Ave. and Lafayette Blvd., for the Detroit Lodge of Elks. The estimated cost is $250,000.

Chicago, Ill.—Press reports state that a site has been secured on 12th St. for the proposed Marshall Field Museum of Natural History. Construction will be begun in the spring. The estimated cost is $5,000,000. Stanley Field is Pres., Museum Com.

Madison, Wis.—(Official)—The lowest bid received for the construction of the Soils Bldg. for the University of Wisconsin was that of T. C. McCarthy, at $49,249. M. E. McCaffrey is Secy. of University. Noted Dec. 24.

✚Oshkosh, Wis.—The general contract for the construction of the three-story high school has been awarded to C. R. MEYER & SONS CO., at $114,837. Noted Oct. 22, Dec. 31 and Jan. 21.

Racine, Wis.—Bids will be received until Feb. 2 by Guilbert & Funston, Engrs., for the construction of the four-story, 80x160-ft. Y. M. C. A. building. The estimated cost is $100,000. Noted Sept. 3 and Oct. 8.

Brooklyn, Iowa—(Official)—Bids will be received about Mar. 1 by Reimer & Herdin, Arch., Marshalltown, for the construction of a hotel. Estimated cost, $38,000. Noted Jan. 14.

Cedar Rapids, Iowa—L. W. Anderson, Masonic Temple Bldg., is interested in a company now being organized to construct a fireproof hotel. Estimated cost, $500,000.

East Des Moines, Iowa—(Des Moines post office)—The Chicago, Rock Island & Pacific Ry. contemplates the construction of a terminal. The estimated cost is $1,000,000. C. A. Morse, Chicago, Ill., is Ch. Engr.

Sioux City, Iowa—The Directors of Morningside College plan to construct a building replacing the conservatory of music, recently destroyed by fire. Estimated cost, $45,000. Alfred E. Craig, D. D., is Pres.

St. Louis, Mo.—The Woodmen of the World plan the construction of a three-story, 100x150-ft. building. The estimated cost is $125,000. Albert F. H. Seelig is Arch.

Austin, Tex.—(Official)—The construction of a building for the First Methodist Church will not be started for about a year. Estimated cost, $100,000. H. W. Knickerbocker is Pastor. Noted Jan. 7.

Fort Worth, Tex.—The Commissioners' Court of Tarrant County has retained Sanguinet & Staats, Arch., to prepare plans for the construction of a jail. Estimated cost, $300,000. Noted Nov. 19.

Denver, Colo.—Liebhardt Bros. have been granted a permit to construct a two-story office building at 16th and Welton St. Estimated cost, $42,000.

✚Seattle, Wash.—W. T. BUTLER CONTRACTING CO., Central Bldg., has been awarded the contract for the construction of a five-story, 60x108-ft. addition to the Fischer Bldg. Estimated cost is $85,000. Bebb & Gould, Denny Bldg., is Arch.

Walla Walla, Wash.—(Official)—Osterman & Siebert, Arch., advises us that plans will be ready for figures about Mar. 1 for the construction of a courthouse. Noted Oct. 23 and Nov. 6, 1913, and Jan. 7, 1915.

✚Dixon, Calif.—The Board of School Trustees has awarded the contract for the construction of a high school building to BOYD, KERR & McLEAN, San Francisco, at $56,708. Noted Nov. 19.

Fresno, Calif.—Bids will be received until noon, Feb. 1, by W. F. McClure, State Engr., Sacramento, for the construction of the State Normal School. The estimated cost is $350,000.

✚Richmond, Calif.—The contract for the construction of the Grant School on Clinton Ave. has been awarded to L. OVERRA. The estimated cost is $50,000.

Sacramento, Calif.—Plans are being prepared by the City Engineers for the construction of the Hall of Justice and jail. The estimated cost is $208,000. Frank C. Miller is City Engr. Noted Nov. 5.

✚San Francisco, Calif.—The French Government has awarded the contract for the construction of an exhibit building at the Panama-Pacific International Exposition to the LINDGREN CO., at $88,820.

Contracts to Be Let

Bids received until Feb. 23, 1915.

Columbia River Interstate Bridge

Portland, Oregon.

Sealed proposals will be received by the Columbia River Interstate Bridge Commission on February 23, 1915, at two P.M., in room 201 of Multnomah County Court House, Portland, Oregon, for the furnishing of all materials and performing of all work for the construction of the Columbia River Interstate Bridge and Approaches. The bridge and approaches are for highway and street car traffic and comprise about 5000 linear feet of steel structure and 12,000 linear feet of embankment; including about 9500 tons of steel, about 1,000,000 cubic yards of embankment, and about 29,000 cubic yards of concrete. Contracts will be let under several sections to one or more bidders for a part or for the whole of the work.

Proposals and bids shall be subject to all requirements of the specifications, plans, contract, contractors' bonds, and proposal forms; and shall be made upon blank forms provided in the specifications. The bidder to whom a contract may be awarded shall promptly execute a formal contract and shall furnish a penal bond with good and sufficient sureties satisfactory to the Commissioners in an amount equal to the total contract price, for the faithful performance of said contract and all provisions thereof.

To all bids there shall be attached a certified check of the bidder, certified to by a responsible bank, made payable to Wm. N. Marshall, Secretary, of an amount of ten per cent. of the total bidding price, and the bidder who has a contract awarded to him and who fails promptly and properly to execute said contract, or bond, shall forfeit said check. The said check shall be taken and considered as liquidated damages and not a penalty for failure of such bidder to execute said contract and bond. Upon the execution of said contract and bond by the successful bidder, the said check shall be returned to him. The checks of unsuccessful bidders shall be returned to them after the contract and bond with the successful bidder are duly executed.

The contract will be awarded to the lowest responsible bidder, but the Commission reserves the right to reject any and all bids. Multnomah County provides five-sevenths and Clarke County two-sevenths of the funds for payments.

Plans and specifications are on file in the office of the County Clerk of Multnomah County, Oregon, in the office of the County Clerk of Clarke County, Washington, and in the office of State Commissioner of Highways at Salem, Oregon. Copies of the plans and specifications may be secured from the Secretary of the Interstate Bridge Commission at Vancouver, Washington, or from the Consulting Engineers, Waddell & Harrington, at Kansas City, Missouri, by depositing twenty-five dollars. The amount of the deposit will be refunded upon the return of the plans in good order accompanied by a bid; or one-half the amount of the deposit will be refunded upon the return of the plans in good order without a bid.

WM. N. MARSHALL, Secretary.
County Court House.

Bids received until Feb. 15, 1915.

Concrete Reservoir

Tampa, Fla.

Sealed proposals will be received, until twelve o'clock noon, February 15th, 1915, at the office of the Tampa Water Works Company, Tampa, Florida, addressed to Chester R. McFarland, General Manager, for a reinforced concrete reservoir about 206 feet long by about 125 feet wide by about 20 feet deep, in accordance with plans and specifications to be furnished by the said Company. A deposit of twenty-five dollars will be required for a copy of the above mentioned plans and specifications. Each bid must be accompanied by a certified check for twenty-five hundred dollars ($2,500), on a National Bank of Tampa, Fla., or Philadelphia, Pa., and made payable to the order of the Tampa Water Works Co. The successful bidder will be required to file with the Tampa Water Works Co., to insure the faithful performance of the contract, a surety bond acceptable to the Water Works Co. for fifty per cent. of the contract price. The Tampa Water Works Co. reserves the right to reject any or all bids.

Bids received until Mar. 2, 1915.

Ashby Reservoir

FITCHBURG, MASS., WATER WORKS.

Sealed bids for constructing Ashby Reservoir, Fitchburg Water Supply System, will be received by the Board of Water Commissioners at their office, City Hall, Main Street, Fitchburg, Mass., until 2 o'clock P.M., Tuesday, March 2, 1915. Bids must be upon the blank form of proposal furnished. Each bid must be accompanied by a certified check drawn on a National bank or trust company established in some city in the State of Massachusetts, or the City of New York, for seven thousand five hundred dollars ($7,500). A contract bond in the sum of thirty-five thousand dollars ($35,000) with a surety company will be required. The main features of the construction are an earth dam approx. 1040 ft. long, max. height about 25 ft.; an earth dike approx. 1090 ft. long, max. height about 19 feet; thin reinforced concrete curtain walls for both dam and dike; concrete spillway dams and paved channel; concrete gate-well, gate-house, gate manhole and pipe lines; and about 7,000 linear feet of gravel road construction.

The principal items of work are approximately as follows:

Clearing and grubbing	60 acres
Earth excavation	55,200 cubic yards
Rock excavation	6,800 cubic yards
Concrete masonry	3,870 cubic yards
Steel reinforcing bars	179,000 pounds
Stone paving	7,250 square yards

Required date of completion of contract July 1, 1916. Premium for completion October 1, 1915, five thousand dollars ($5,000). Contract drawings, form of proposal, contract and specifications may be obtained at office of the Water Commissioners in Fitchburg, or at office of Metcalf & Eddy, Engineers, 14 Beacon Street, Boston, Mass. A deposit of ten dollars ($10) will be required on plans and specifications. Plans and specifications may also be seen at office of Metcalf & Eddy, Harris Trust Bldg., Chicago, Ill., and at office of "Engineering News," New York City.

THOMAS P. SHELDON,
ARTHUR A. TRAIN,
FRANK H. FOSS,
Board of Water Commissioners.

ERNEST E. LOTHROP,
City Engineer.
METCALF & EDDY,
Consulting Engineers, Boston, Mass.
January 12, 1915.

Bids received until Feb. 16, 1915.

Sewers

Warren, R. I.

Sealed proposals will be received by the Sewer Commissioners of the town of Warren, R. I., until 2 o'clock P.M., Tuesday, February 16th, 1915, for the construction of about 15,000 feet of sewers 8" to 18" in diameter, sedimentation tanks and two small collection wells and motor houses.

Each proposal for the above work must be accompanied by a certified check for $1000, made payable to the town of Warren, as a guarantee for the execution of the contract and bond, and to be returned after the contract is awarded.

Plans and specifications with blank form of proposal can be obtained at the office of Charles F. Chase, Civil Engineer, 75 Westminster Street, Providence, R. I.

A deposit of $10 will be required for each copy of the plans and specifications, and said deposit will be refunded upon the return of the plans and specifications in good condition within two weeks after receipt of bids.

The successful bidders will be required to furnish a Surety bond for, at least, 30% of the gross amount of the contract.

The Sewer Commissioners reserve the right to reject any or all bids.

Bids shall be endorsed on the outside, "Bid for Sewers, etc.," and sent to the Secretary of the Sewer Commissioners.

WILLIAM H. SMITH,
Secretary of the Sewer Commission.

Bids received until Feb. 2, 1915.

Alterations to Electric Plant

Bath, N. Y.

Sealed proposals for alterations to Electric Plant at the New York State Soldiers & Sailors Home, Bath, N. Y., will be received by Hon. Joseph A. Goulden, President, Board of Trustees, New York State Soldiers & Sailors Home, Bath, N. Y., until February 2, 1915, at eleven o'clock A.M. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a certified check in the sum of 5% of the amount of bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of specification No. 2063. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Soldiers & Sailors Home, Bath, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of Ten Dollars, made payable to the State of New York, which check will be returned when plans and specifications are returned in good condition to Lewis F. Pilcher, State Architect.

WILLIAM H. NICHOLS, Secretary.

Dated Bath, N. Y., January 6, 1915.

Bids received until Feb. 12, 1915.

New Floors in Cottages

Hudson, N. Y.

Sealed proposals for New Floors in Cottages 1-2-3-4 at the New York State Training School for Girls, Hudson, N. Y., will be received by Miss Mary Hinkley, President of the Board of Managers, New York State Training School for Girls, Hudson, N. Y., until Friday, February 12, 1915, at 2 P.M., when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of 5% of the amount of bid. Contractor to whom the award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of specification No. 2205. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Training School for Girls, Hudson, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Lewis F. Pilcher.

Bids received until Feb. 15, 1915.

Proposals for Paving

Emmetsburg, Iowa.

Sealed proposals will be received by the City Clerk of the City of Emmetsburg until 2 o'clock P. M. on the 15th day of February, 1915, at which time said proposals will be publicly opened by the City Council of the City of Emmetsburg, for the construction of approximately forty thousand (40,000) square yards of pavement, composed of one of the following materials: Bitulithic, Sarcolithic, Mineral Rubber, Asphaltic Concrete, Vitrified Brick, Creosoted Wood Block, or Portland Cement Concrete.

Payment will be made in special assessment bonds on the completion of the work. Certified check for Seven Thousand Five Hundred Dollars ($7500.00) will be required. The right is reserved to reject any and all bids. Attention is directed to the official proposal notice published in the Emmetsburg Democrat, a newspaper of the City of Emmetsburg, Iowa.

Plans and specifications may be seen at the office of the City Clerk of said City, at the Des Moines National Bank, Des Moines, Iowa, and at the office of the Aetna Engineering Bureau, Civil and Sanitary Engineers, 17 N. LaSalle St., Chicago, Ill.

Bids received until Feb. 4, 1915.

Main Sewer

DEPARTMENT OF PUBLIC WORKS
Office, 216 City Hall

Philadelphia, January 14, 1915.

Sealed Proposals, endorsed "Bids for Main Sewer" and addressed to the undersigned, at Room 216 City Hall, will be received until 12 o'clock, noon, on Thursday, February 4, 1915, for

Schedule A. Gunners Run relief sewer in Indiana street from 3rd street to 12th street. 16 feet diameter brick sewer. Appropriation $200,000.

Plans for the above work will be exhibited in the office of Bureau of Surveys, Philadelphia.

Specifications and blank forms upon which bids must be made, will be furnished upon applications to the Chief Engineer, Room [illegible] City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

Bids will be opened and read in Room 225 City Hall, at noon on date above mentioned.

No bid will be considered unless accompanied by a certificate from the City Solicitor, that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

M. L. COOKE, Director.

Bids received until Feb. 19, 1915.

Pumping Station and Equipment

Quincy, Illinois, January, 1915.

Sealed bids will be received until 2 o'clock P.M., February 19th, 1915, at office of Edmund T. Perkins Engineering Company, First Nat'l. Bk. Bldg., Chicago, for furnishing all materials, machinery and labor for erection and installation of an electric pumping station for the South Quincy Drainage and Levee District, Adams County, Illinois. Pumping Station requires construction of Pump House, Substation, Suction and Discharge Bays, laying of about 180 feet of C. I. pipe, hauling and erection of all machinery and wiring for electric machinery and lighting.

Bids for the pumping machinery will be received either as a whole or for each part. The plans call for 2 centrifugal pumps, equipped with chain drive and necessary auxiliaries, a 5 ton traveling crane and 2—200 H.P. motors and auxiliaries and 3—150 K.A. Transformers.

For further information address the Edmund T. Perkins Engineering Company.

The Commissioners reserve the right to reject any or all bids.

WALTER P. MARTINDALE, Secretary.

Bids received until Feb. 18, 1915.

Fabius River Drainage District—3

SCOTLAND, KNOX, CLARK AND LEWIS COUNTIES, STATE OF MISSOURI.

Sealed bids will be received by the Supervisors of the Fabius River Drainage District No. 3 at the office of F. H. McCullough, Edina, Missouri, until 11:00 o'clock A. M., February 18, A.D. 1915, for the construction of channels for the Fabius River Drainage District No. 3. There are about 500,000 cubic yards of channel excavation. The work has been divided into two sections.

For further information inquire of Harman Engineering Co., 144 Fredonia Ave., Peoria, Ill.

Jacob A. Harman, Chief Engineer.

Jan. 20, 1915.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, 39 Whitehall Street, New York, N. Y., January 12, 1915.—Sealed proposals for dredging in Harlem River, N. Y., will be received at this office until 12 M., February 11, 1915, and then publicly opened. Information on application. W. M. BLACK, Col. Engrs.

Bids received until Feb. 24, 1915.

Intercepting Sewers

OFFICIAL NOTICE NO. 9.

PUBLISHED BY AUTHORITY OF THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE.

Milwaukee, Wis., January 15, 1915.

Sealed proposals for constructing intercepting sewers and connections on both sides of the Milwaukee River in the City of Milwaukee will be received by the Sewerage Commission at its office in the City Hall until 2:00 P.M. on the 24th day of February, A.D. 1915, at which place and time the proposals will be publicly opened and read.

The work to be done is divided into two separate contracts numbered 9 and 10.

Number 9 embraces the construction of an intercepting sewer and branches on the east side of Milwaukee River from a point below the Dam to the intersection of Broadway and Detroit Streets, and requires the construction of approximately:

7927 ft. brick and concrete sewer in open cut from 30" to 51" diameter.
3992 ft. brick and concrete sewer in tunnel from 30" to 51" diameter.
3844 feet terra cotta pipe sewer from 10" to 24" diameter.
1762 feet of manholes and pile and timber foundations.

Number 10 embraces the construction of an intercepting sewer and branches on the west side of Milwaukee River from the Holton Street viaduct to the intersection of West Water and Fowler Streets and requires the construction of approximately:

8480 ft. brick and concrete sewer in open cut from 30" to 48" diameter.
2340 feet terra cotta pipe sewer in open cut from 10" to 18" diameter.
1105 feet of manholes and pile and timber foundations.

All as shown upon the plans and described in the specifications now on file in the office of the Sewerage Commission.

The time allowed for completing each contract shall be two hundred and fifty (250) working days. (Working days meaning such as are particularly described in the contract.)

The liquidated damages for not completing the work within the time agreed shall, for each day's delay, be an amount equal to one-half of one percentum of the aggregate cost of the work embraced in the contract.

Each proposal must be accompanied by a cash deposit of, or, in lieu thereof, by a certified check drawn upon a national or state bank doing business in the City of Milwaukee, to the order of the "Sewerage Commission of the City of Milwaukee," for the following sums; failing in which the bid will be rejected:

For proposals Number 9, $38,500.00.
For proposal Number 10, $25,000.00.

Specifications and blank forms of proposals can be obtained, and details plans examined, at the office of the Sewerage Commission in the City Hall.

The prices must be written in the proposal and also stated in figures. In case of variation the written prices will prevail.

All cash deposits or certified checks deposited by bidders to whom the contract is not awarded will be returned upon application to the Secretary of the Commission after the contract has been awarded or after the rejection of all bids. The cash deposit or certified check which may be deposited by the successful bidder will be returned to him as soon as the contract is properly executed and approved by the City Attorney and Sewerage Commission.

Full sets of detail plans will be sent to any contractor desiring to bid upon receipt of ten dollars ($10.00).

The Sewerage Commission of the City of Milwaukee reserves the right to reject any and all bids submitted.

J. H. FOWLES, Secretary.

Countersigned:
LOUIS M. KOTECKI, Comptroller.

SEALED PROPOSALS will be received at the Office of the Lighthouse Inspector, Philadelphia, Pa., until 2 o'clock p.m., February 19, 1915, and then opened, for furnishing and erecting an elevated boardwalk at Bellevue Range Rear Lighthouse, Delaware. Blank proposals and particulars may be obtained by addressing the Lighthouse Inspector, Philadelphia, Pa.

U. S. ENGINEER OFFICE, First District, New York City, Room 710, Army Building, 39 Whitehall Street, New York, N. Y., January 23, 1915.—Sealed proposals for dredging in Port Chester Harbor, N. Y., will be received at this office until 12 M., February 23, 1915, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

U. S. ENGINEER OFFICE, Savannah, Ga., January 25, 1915.—Sealed proposals for furnishing and placing stone for raising low places in jetty at Savannah Harbor, Ga., will be received at this office until 12 Noon (Eastern Standard Time) February 24, 1915, and then publicly opened. Information on application. W. C. LANGFITT, Col., Engrs.

Bids received until Feb. 15, 1915.

Water Works

Mount Morris, N. Y.

Sealed proposals will be received by the Municipal Board of the Village of Mount Morris, Livingston County, N. Y., up to 2 o'clock P. M., February 15, 1915, for furnishing the materials and constructing a new Distribution System of Cast Iron Water Mains, gate valves, fire hydrants, etc., for the Water Works of said Village.

There will be required approximately the following material:—Nine miles of 10, 8 and 6 inch cast iron water mains, ninety-eight (98) fire hydrants and ninety-five (95) gate valves and boxes, and other work and materials as set forth in the specifications.

A certified check in an amount equal to at least two per cent. (2%) of the amount of the bid, made payable to C. W. Bingham, Treasurer of the Village of Mount Morris, must accompany each proposal.

Proposals must be enclosed in sealed envelopes and each must have written on it plainly the words "Proposal for Distribution system," and must state also the portion of the work for which it is a proposal. They must be addressed to J. A. Striker, Village Clerk, Mount Morris, N. Y.

Plans may be seen and specifications and blank forms of proposal procured at the Office of J. A. Striker, Clerk of the Village, Mount Morris, N. Y.

The right is reserved to reject any and all bids.

MUNICIPAL BOARD,
By J. Aubrey Striker, Village Clerk.

J. F. Witmer Company, Engineers,
Buffalo, N. Y.

Mount Morris, N. Y., January 27, 1915.

Bids received until Feb. 20, 1915.

Twenty-Inch Water Main

Middletown, N. Y.

Sealed proposals indorsed "Proposals for laying twenty inch cast iron water main" will be received at the office of the Commissioner of Public Safety at the City Hall, Middletown, N. Y., until 4 P.M. on Saturday, February 20th, 1915, when they will be publicly opened and read.

Proposals shall be accompanied by a certified check payable to the order of the Treasurer of the City of Middletown, N. Y., in the sum of Five Hundred Dollars. Approximate quantities are as follows:

A. Chopping, clearing and draining.
B. 2,510 lin.ft. of trenching and refilling.
C. 1,600 lin.ft. of deep trenching and refilling.
D. 1,890 lin.ft. of grading and embankment over pipe.
E. 6,000 lin.ft. of laying, jointing and caulking 20" pipe.
F. All testing pipes under pressure.

The right is reserved to reject any or all proposals or bids. Bond in the amount of not less than 50% of the contract price will be required for the proper performance of the contract. Plans and specifications can be obtained at the office of the Commissioner of Public Safety, No. 15 City Hall, Middletown, N. Y.

J. C. DEGNAN,
Commissioner of Public Safety.

Bids received until Feb. 9, 1915.

Sedimentation Basin

Philadelphia, Pa.

Bids will be received at Room 216 City Hall, Philadelphia, and opened February 9, 1915, at noon, in Room 225 City Hall, Philadelphia, for a Sedimentation Basin at Torresdale filters. Bidders will be required to file a bond for $500, and an additional surety company guarantee with bid. Plans and specifications can be had at Room 701 City Hall. A deposit of $10.00 is required for plans and specifications.

U. S. ENGINEER OFFICE, Trust Company Building, Post-office and Tremont Sts., Galveston, Texas, January 25, 1915.—Sealed proposals for construction of motor dredge tender, "La Porte," will be received at this office until 12 o'clock, noon, February 23, 1915, and then publicly opened. Information on application. C. S. RICHE, Lt. Col., Engineers.

U. S. ENGINEER OFFICE, Cincinnati, O., January 27, 1915.—Sealed proposals for constructing and delivering two steel hull sternwheel towboats "Cayuga" and "Ottawa" will be received at this office until 2 p.m., February 26, 1915, and then publicly opened. Information on application. H. JERVEY, Lt. Col., Engrs.

U. S. ENGINEER OFFICE, Louisville, Ky., January 25, 1915.—Sealed proposals for furnishing and erecting Three Mitering Lock Gates of two leaves each, for Lock No. 41, Ohio River, will be received here until 12 noon, central time, February 25, 1915, and then publicly opened. Information on application. J. C. OAKES, Major, Engrs.

DEPARTMENT OF THE INTERIOR, U. S. RECLAMATION SERVICE, Washington, D. C., January 25, 1915.—Sealed proposals will be received at the office of the United States Reclamation Service, Provo, Utah, until 2 o'clock P.M., February 24, 1915, for construction involving 49,000 yards of canal excavation and 3,670 yards of reinforced concrete. The work is located near Payson City, Utah, on the San Pedro, Los Angeles and Salt Lake R.R. and the Tintic Branch of the Denver and Rio Grande R.R. For particulars, address the United States Reclamation Service at Provo, Utah, or Washington, D. C. A. P. DAVIS, Director and Chief Engineer.

U. S. ENGR. OFFICE, Boston, Mass., Jan. 18, 1915.—Sealed proposals for dredging in Chelsea Creek, Boston Harbor, Mass., will be received here until 12 M., Feb. 18, 1915, and then publicly opened. Information on application. W. E. CRAIGHILL, Lieut. Col., Engrs.

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., January 28th, 1915.—SEALED PROPOSALS will be received at this office, Room 509, District Building, until 2 o'clock P.M., on February 8, 1915, for the construction of Sewers in the District of Columbia, involving the construction of 12,800 linear feet of Pipe sewer, 10 inches to 24 inches diameter. Forms of proposals, specifications and necessary information may be obtained from the Chief Clerk, Engineer Department, Room 427, District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.

U. S. ENGINEER OFFICE, 305 Southern Building, Washington, D. C., Jan. 18, 1915.—Sealed proposals for substitution of through span for deck span in the Pennsylvania Avenue Bridge across Anacostia River, Washington, D. C., will be received at this office until Feb. 17, 1915, and then publicly opened. Information on application. H. C. NEWCOMER, Lt. Col., Engrs.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities**, **Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale**, 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similar literature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

MECHANICAL ENGINEER, 20 years' experience financial, executive, selling and advertising work, open for engagement. P. W. 674, Eng. News.

MECHANICAL ENGINEER, 34, technical school and 12 years' broad experience, desires position, in or near New York preferred. P. W. 730, Eng. News.

Civil Engineers

ENGINEER, 14 years' experience; surveys on railroad location and construction, irrigation, drainage, United States Geological, subdivisions, flood prevention and sewers. Flitman, 7 West Harrison, Danville, Ill.

CIVIL ENGINEER, 26, technical graduate, 5 years' experience in railroad maintenance and municipal engineering and construction. Good references. P. W. 686, Eng. News, Chicago.

GRADUATE CIVIL ENGINEER; 6 years' experience, structural drafting railroad work and factory construction. P. W. 723, Eng. News.

CIVIL ENGINEER; graduate, 12 years' practical experience with consulting engineers and utility companies; water works and other utilities; preliminary investigations, design, construction, appraisals. References. P. W. 726, Eng. News.

CIVIL ENGINEER, four years' experience structural steel and reinforced concrete; position with city or county engineer desired; experience desired rather than large salary. P. W. 714, Eng. News, Chicago.

CIVIL ENGINEER, 12 years' experience on large electric-power houses, reservoirs, foundation and railroad construction; moderate salary. P. W. 715, Eng. News, Chicago.

CIVIL ENGINEER; 10 years' experience, field and office, desires position; structural or reinforced concrete design and estimates; railroad or municipal. P. W. 670, Eng. News, Chicago.

CIVIL ENGINEER, 25, technical graduate with two years' varied construction experience, will accept anything reasonable, efficient, well recommended. P. W. 770, Eng. News, Chicago.

CIVIL ENGINEER, water-works manager, and superintendent, sixteen years' experience engineering work, seven years of which water-works superintendence and construction, with municipal corporation. Now engaged; desires water-works position. P. W. 771 Eng. News.

GRADUATE CIVIL ENGINEER with 2 years' experience in railroad location and maintenance, and general engineering work desires position with railroad or general contractor. P. W. 772, Eng. News.

GRADUATE CIVIL ENGINEER, 24, desires position. Two years' experience structures and concrete. P. W. 774, Eng. News.

GRADUATE CIVIL ENGINEER, Assoc. M. Am. Soc., C. E., age, 30; nine years' experience, roads and pavements, railroad construction, superintendent for contractor, canal construction and hydraulic work. Recently finished in charge of work aggregating $4,500,000. References furnished. Interested in any position giving chance for advancement. Capable of designing and superintending heavy construction. P. W. 775, Eng. News.

ENGINEER, 37, with 12 years' experience in design, construction and economies of hydro-electric and water-front developments, also fireproof buildings, desires position of trust and adequate renumeration. P. W. 784, Eng. News, Chicago.

CIVIL ENGINEER, 10 years' experience in structural steel, reinforced concrete, reconstruction work, etc., and also commercial experience in South America, wants employment; speaks Spanish, French and German fluently. P. W. 788, Eng. News.

CIVIL ENGINEER, technical graduate; 24; two years' experience, railroad and maintenance and concrete bridge design and construction; position with engineers or contractors; go anywhere, immediately. P. W. 781, Eng. News.

Bridge and Structural

CHIEF DRAFTSMAN, charge 60 men, desires change; age 35; strong personal force; proved executive ability; 14 years' comprehensive experience. P. W. 520, Eng. News.

GRADUATE ENGINEER; designer bridge and structural work, reinforced concrete, railway and transmission line structures; general contracting and building. Experience in office and field. Open for engagement. P. W. 683, Eng. News.

BRIDGE AND STRUCTURAL ENGINEER with long experience holding responsible positions wishes to change location. P. W. 751, Eng. News.

Surveyors

INSTRUMENT MAN, age 26, six years' experience in field, office and construction work. Position in the East preferred. P. W. 748, Eng. News.

SURVEYOR, technical graduate, two years' practical experience. Absolutely reliable, will run instruments, plot own notes, etc., location immaterial. P. W. 773, Eng. News.

INSTRUMENTMAN, topographer, map, draftsman; thorough experience, own instruments; first class. P. W. 785, Eng. News, Chicago.

Draftsmen

FIRST CLASS structural checker and squadman, twelve years' experience; bridges, buildings, industrial plants, with steel mills and construction companies. Good executive, first class reference. Available, February first or before. P. W. 738, Eng. News.

EXPERT DRAFTSMAN and designer, steel work and machinery 15 years, local position wanted. P. W. 754, Eng. News.

Superintendents, Etc.

EXPERIENCED TIMEKEEPER and office man desires position at once. Will go anywhere. Best of references. Box 163, Richmond, Va.

SECRETARY—Office man, stenographer, secretary, with good command of Spanish, wants position with company operating in Central or South America. Six years' experience on construction, railroad, and steel work. P. W. 744, Eng. News.

YOUNG MAN, 28, business and engineering experience, wishes to learn purchasing with engineers, contractor or railroad; will start at moderate salary; go anywhere. P. W. 787, Eng. News.

SUPERINTENDENT of cement plant, age thirty-six, good construction man or operator, desires change available on short notice. P. W. 776, Eng. News.

CONSULTING ENGINEER AND SALESMAN; 5 years' traveling experience designing, introducing, selling and contracting for construction materials, among state, city and private architects, engineers and contractors throughout eastern half of the United States; open for engagement. P. W. 777, Eng. News.

YOUNG MAN would like position timekeeping or foreman. P. W. 782, Eng. News.

POSITIONS OPEN

EXPERIENCED ESTIMATOR for general building construction; state age, experience and salary expected. P. 783, Eng. News.

TOWN MANAGER—The Town of Norwood, Massachusetts, will receive applications for the position of town manager. The appointee will be head of all departments of the town government and must be a man specially fitted by education, training and experience—including engineering work—to perform the necessary duties. State age and experience. Address office of Selectmen, Town of Norwood, Massachusetts.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

SUPERINTENDENT for malleable iron plant, also general foreman for large motor shop, building motors and generators. Only high grade men need apply. The Toledo Engineering Agency, Toledo, Ohio.

WANTED

COPIES of January 7, 1915, issue "Engineering News." Will pay 15 cents and postage. Subscription Dept. "Eng. News."

BUSINESS OPPORTUNITIES

CONTRACTORS AND EXPORTERS: Do you wish the services of an American, Member American Society of Civil Engineers, with some capital who has had 18 years' engineering experience in the United States, Alaska, Central and South America. Knowledge of language and business customs in Latin America. B. O. 778, Eng. News.

LIVE CONCERN OR CAPITALIST wanted to exploit new mechanical stoker—the only practical stoker for small anthracite coal—in conjunction with artificial draft furnace of established reputation. B. O. 786, Eng. News.

FOR SALE

TEN TEAM OUTFIT, bottom dumpers, scraper, and road-work, Sullivan County. William Oppenheim, 793 Westchester Ave., Bronx, N. Y.

Classified List

Second Hand Machinery, Material and Equipment

For Sale—Exchange—Rent—Wanted

Items not otherwise marked list equipment for sale.

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

N

ADDRESSES

BECKWITH, J. S., 108 Park Way, N. S., Pittsburgh, Pa.

BRADEN, James C., 26 Cortlandt St., N. Y. City.

CARPENTER & ANDERSON, Union Trust Bldg., Detroit.

CONTRACTORS' Service Co., 50 Church St., N. Y. City.

DALLETT & CO., Harrison Bldg., Phila., Pa.

DOUGLAS, Geo. B., 29 Broadway, New York.

GIVIN Co., Herbert, 30 Church St., N. Y. City.

GRIMSHAW CO., Wm. B., Drexel Bldg., Phila., Pa.

HITNER'S Sons Co., Henry A., Philadelphia, Pa.

HOISTING Engine Sales Co., 120 West 32d St., New York.

LINES FLYNN Co., Inc., 30 Church St., N. Y. City.

MARINE Metal and Supply Co., 167 South St., N. Y. City.

NEW RIVER Co., The, Macdonald, W. Va.

PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.

ROCHESTER—Address P. O. Box 27, Rochester, N. Y.

SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.

SOUTHERN Iron & Equipment Co., Atlanta, Ga.

STALLEY, G. T., Box 390, Cleveland, Ohio.

WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

1 Blaisdell 16x10x10, 60 H.P., 342 cu.ft. First class condition. Theo. Smith & Sons Co., Jersey City, N. J.

3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

BARGES

[Wanted]

Deck barge about 34'x80'x6' steel or wood, in first class condition. Mail full particulars and location to HENRY BICKEL CO., Louisville, Ky.

Most items are signed with only part of the advertiser's name. Complete names and addresses in alphabetical order will be found under the heading "Addresses."

BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

40, 50, 60 and 80 H.P. loco. type on skids.—PIPE & C. S. CO.

BUCKETS

One four leaf 1 yd. Orange peel.—PIPE & C. S. CO.

5—¾ cu. yd. standard clam shells.—STALLEY.

1—1 yd. Williams single line clam shell.—BECKWITH.

Orange peel—¾, 1, 1¼, 1½ yd. capacity; clam shell—½ to 3 yd. capacity.—GIVIN.

CARS

[Standard Gauge]

7—12 yd. 2-way Oliver dump cars with air brakes.—ROCHESTER.

[24" Gauge]

1½ yd. Western with Vulcan Dinkey.—DALLETT.

CRUSHERS

Farrel Jaw, 15x9, with screen and engine.—MARINE.

National Jaw, 14x8, on wheels.—MARINE.

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 No. 2 Climax on trucks with 15' elevator with 18 H.P. mounted Climax portable engine and boiler.—BECKWITH.

CRUSHER EQUIPMENT

Stone crusher equipment including boiler, engine, crusher and 115 ft. American Steel derrick, complete. Will sell all or part.—KANAWHA LAND CO., Charleston, W. Va.

DERRICKS

1 Steel stiff leg, 70' boom; 1 steel guy, 70' boom, 25 tons cap.; 1 steel traveling, 45' boom.—GIVIN.

DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

1—20" Hydraulic dredge, complete with Pontoons, pipe line, etc.—ROCHESTER.

ELECTRIC LIGHTS

For sale at less than half cost. Sixty 300 C.P. D.C. 220 V. Nernst arc lamps, moon globes. In perfect running condition. Can be seen in use in our offices; $4 each. (Regular price, $9.50). Price includes drop lighting switch. Must sell as our voltage is 110 in new office. HILL PUBLISHING CO., 10th Ave. at 36th St., New York.

ENGINES, OIL

35 H.P. Foos, nearly new.—Address C. RUTTER SPENCER CO., Water & Dickinson St., Phila., Pa.

Most items are signed with only part of the advertiser's name. Complete names and addresses in alphabetical order will be found under the heading "Addresses."

ENGINES, GAS

1 8 H.P. Vertical Type Fairbanks with sub-base.—SAMPSON

EXCAVATORS

1 Monighan Drag Line with one and two-yd. bucket in Detroit, Mich.—CARPENTER.

FEED WATER HEATERS

Several types, capacities up to 1200 HP.—NEW RIVER.

FIRE ENGINES

2 Fire Engines, condition, first class.—HITNER'S.

HOISTING ENGINES

Lidgerwood 10x12 D.D.D.C. side by side drums, 33" diam.—MARINE.

Lidgerwood, 5x8 D.D.D.C. with boiler.—MARINE.

12 Lidgerwood, Lambert and others. Also one 5 lever Stroudsburg 7x10 cableway engine. PIPE & C. S. CO.

2 Lidgerwood 14x18, D.C. 3-tandem drum, reversible link motion; 1 Lidgerwood, 10x12, D.C. S.D. reversible link motion; 1 Lambert, 10x12, D.C. D.D. with boiler; 2 Lambert, 8x10, D.C. D.D. with Mass. boilers; 1 Lambert 7x10, D.C. D.D. with boiler; 1 Mundy, 7¼x10, D.C. D.D. with boiler; 1 Mundy, 6¼x10, D.C. D.D. with boiler; 1 O. & S. 6¼x8, D.C. D.D. with boiler. 2 Lidgerwood, 60 H.P. D.D. and swinger d.c. hoists.—HITNER'S.

9x10 Lidgerwood 3 drum—8¼x10 Lidgerwood D.D. with or without boiler or swinger. Other sizes.—GIVIN.

1—7½ H.P. single drum electric hoist.—BECKWITH.

TWO HUNDRED FIFTEEN hoists. Immediate delivery. 3- drum, 7x10, 8¼x10, 9x10, Skeleton or boiler.—HOISTING.

INSTRUMENTS, SURVEYING

Second-Hand Transits, Levels, etc. Bought, sold or exchanged. Send for list of Second-Hand Instruments. Get our prices before ordering. WILLIAMS, BROWN & EARLE, Inc., Engineering Supplies, Dept. E, 918 Chestnut St., Phila.

$175 K & E No. 5025 Precision 3 screw Y level, new, $133; $235 K. & E. No. 5060 Fine Tr. V. Circle, new, $195—Guaranteed. 99 others. Rentals, repairs, supplies.—ARCHITECTS' & ENGINEERS' SUPPLY CO., Kansas City, Mo.

LOCOMOTIVES

[Standard Gauge]

1 Porter, Std. G., 20-ton, 12x18, saddle tank.—DOUGLAS.

50 locomotives, Switch, Mogul, Consolidation, Ten Wheel and Saddle Tank types.—SOUTHERN.

2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

[36" Gauge]

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

5 9x14" Porters.—SOUTHERN.

9x14 Porter and 10x16 Baldwin.—BRADEN.

2—9x14 Baldwin saddle tank.—BECKWITH.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

LOCOMOTIVE CRANES

4 and 8-wheel, 10, 15 and 20 tons capacity.—HOISTING MACHINERY Co., 48 Church St., New York City.

4 and 8 wheel 10 and 15 ton.—CONTRACTORS S. CO.

15-ton Browning, 4-wheel, S. G., 50' boom.—DALLETT.

1—7 Ton, 4 wheel, Industrial, 21' boom; 1—15 ton, 8-wheel, Industrial, wrecking crane, 20' boom, goose neck.—HITNER'S.

15 ton excellent condition, cheap.—STALLEY.

4 and 8 wheel, 10, 15, 20 and 25 tons capacity.—GIVIN.

MIXERS (Asphalt and Concrete)

Hadsel 2 yd. Batch, with engine,—on channels.—MARINE.

Smith ¾ yd. Batch with engine,—on skids—MARINE.

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Portable plant, complete capacity 300-600 yds. per day; rare bargain.—LINES FLYNN.

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PIPE MACHINES

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PUMPS

1 Cameron 3½x2x4 Steam pump.—SAMPSON.

1 No. 8, 1 No. 9, 1 No. 10 Cameron.—MARINE.

2 Davidson Simplex 9x9x11.—MARINE.

1 Worthington Duplex 6x4x6.—MARINE.

1 Worthington Duplex 10x6x10.—MARINE.

2 Snyder-Hughes Vacuum 10x14x12 Simplex.—MARINE.

1 No. 486 Emerson, 4" suc., 3" dis.—MARINE.

Piston and plunger, sizes up to 12x12x12.—NEW RIVER.

2 Worthington 1,500,000 gal. Horizontal, Duplex Power, 14" diameter, 10" stroke.—WATER & LIGHT COMMISSION, Fergus Falls, Minn.

1 Compound duplex vertical center packed plunger, circulating pump, size 21—34x19—24, capacity 3500 gallons, 24 hours.—HITNER'S.

3 Underwriters fire pumps cheap.—WHITNEY.

What is best offer before Feb. 5 on two 20x12x16 Fairbanks Morse Duplex Underwriters pumps with trimmings? Steam header included with fittings; used ten years.—ROYAL C. WISE, 9 S. Clinton St., Chicago, Ill.

RAILS

24" and 20" industrial rail and turntables.—PIPE & C. S. CO.

ROAD ROLLERS

10-ton macadam in excellent condition. Low price for quick sale.—F. S. 779, Eng. News.

[Wanted]

Tandem paving roller at a bargain. Send description to W. 780, Eng. News.

SEWER PLANTS

2—Complete Sewer Contractor's Plants, including compressors and locks.—LINES FLYNN.

STEAM SHOVELS

Marion, model 60, steam shovel.—SOUTHERN.

1 ¾-yd. revolving traction, rebuilt.—LINES FLYNN.

1 70-ton Bucyrus, 2½ yd. dipper; Thew "O."—BRADEN.

2—65 ton, Bucyrus, 2½ Yd. dippers, $3000 each.—HITNER'S.

50 steam shovels, all makes and sizes; some used only two months; rent or sale. Rare bargains. Everything sold is guaranteed.—CONTRACTORS S. CO.

Thew "O" traction, high number, Mass. boiler.—DALLETT.

1 Model 0 Thew, built 1912, low price.—GIVIN.

1—Bucyrus, 18 B, traction revolving ⅞ yd.—GIVIN.

1—1¼ yd. Vulcan steam shovel.—ROCHESTER.

STEEL SHEETING

124 pcs. 15' 15" 33 lb. and 782 pcs. 22' 15" 33 lb. channels with Nye locks in Detroit and Grand Rapids.—CARPENTER.

TRAVELING CRANES

1 15-ton electric 36' 6" span.—DOUGLAS.

One—with clam shell bucket, new and cheap.—WHITNEY.

TRENCHING MACHINES

One No. 1 Austin, good shape and a bargain. BOYD & COOK, 1018 Reibold Bldg., Dayton, Ohio.

TURBINES

2 Houston 44" Vertical, with beveled gears, shafting, etc. —WATER & LIGHT COMMISSION, Fergus Falls, Minn.

WELL DRILLING MACHINES

1 No. 3½ Keystone well drilling machine.—ROCHESTER.

Firm building good engineering specialties and desiring to acquire

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can make advantageous New York connection with party having technical ability, selling experience, and a complete office equipment.

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WE WILL RENT YOU WHAT YOU NEED IN CONTRACTORS' EQUIPMENT

We Carry Only High-Grade Serviceable Machinery IN GOOD CONDITION

Our equipment is regularly repaired at our own shops and we guarantee its mechanical condition. You can depend on it for any work you have in contemplation, big or little.

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Engineering News, New York

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Blowers and Fans	Drill Columns	Saw
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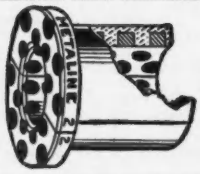
Cars	Grout Machines	Spiral Pipe
Car Tipple	Man Locks	Wrought Iron Pipe
Rock Drills	Pile Hammer	Drill Steels
Elevators		

Apply to

Harold Carpenter, Resident Engineer, Astoria Light, Heat & Power Co., East 132nd St. and Locust Ave., New York City.



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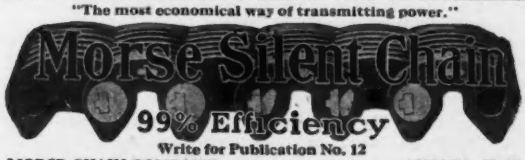

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